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### **Our Mission & Vision**

- Our mission at VAIMEE is to be a leader in IoT interoperability, bridging the digital and physical worlds through advanced data integration
- With our Milky Data Way platform, we are dedicated to empowering businesses and communities by enabling seamless communication among a diverse array of devices, services and models
- We aspire to create a connected ecosystem that contributes to the United Nations
   Sustainable Development Goals (SDGs), envisioning a world where technology drives
   business efficiency and fosters environmental sustainability, social equity, and responsible
   innovation



### VAIMEE's enabling technology



# WATER IS LIFE

### Every single drop can make the difference

# AGRICULTURE CONSUMES MORE THAN 70% OF WORLD'S WATER MAINLY FOR IRRIGATION

Water **availability** for future generations is at risk

We need new approaches to mitigate climate changes

### AGORA' – The Agritech Oracle

#### DEVICES



### SERVICES

### UNIQUE FEATURES

Multi-scale approach from field to landscape

Multi-vendor device support open to integrate sensors from different vendors



Multi-vendor service support open to integrate different weather services



**Models' extension** open to integrate different models also to provide different outputs (e.g., **nitrogen**)

#### Delivered as Software-as-a-Service and powered by Milky Data Way

### Current status

### AGORA' is being **validated** in partnership with:



#### METER

(US, Germany), market leader in the production and commercialization of **sensors** for agriculture



(Netherlands), a big consortium of over 10.000 farmers

in three pilots: one in US, one in Chile and one in the Netherlands.



The **AGORA' Digital Twin** is built on top of **CRITERIA**, the **open source agro-hydrological model** developed by ARPAER (Regional Environmental Agency of Emilia Romagna, Italy) and used in **operational environments (TRL 9**) An accurate forecast of water needs of crops would allow to implement **water saving policies** and **better adapt to climate changes** with an impact on **water availability for future generations** 

Developing an **open** solution which allows to support **multi-vendor devices** (e.g., sensors) and **multi-vendor services** (e.g., weather services) poses a technology challenge in terms of **interoperability** 

AGORA' is at **TRL 5** and our plan is to reach **TRL 8 by the end of 2024**, including a model to predict **nitrogen** emissions

We aim to make AGORA' compliant with the **Sustainable Program for Irrigation and Groundwater Use (SPRING) standard** by GLOBALG.A.P.

### Who we are

#### Founders

The right mix of entrepreneurial experience and **academic** skills.



CEO

Ph.D. Luca Roffia

Assistant Professor SEPA principal scientist (20+ years)



СТО

Ph.D. Cristiano Aguzzi

Invited expert @ W3C WOT WG (8+ years)



Alessandro Fulignani HW/FW Architect (25+ years)



Marzio Minarelli Mentor (30+ years)



#### Members

### At VAIMEE, we foster a collaborative and inclusive

work environment that empowers our team members to contribute their unique skills and perspectives.

#### **COO**



Alessandra Marconi

Open Software innovation architect (12+ years) (10+ years) Gregorio Monari

(2+ years)



Backend developer (20+ years)

Lorenzo Trivelli



Ivan Dimitry Ribeiro Zvrianoff

Software architect (4+ vears)

Entrepreneurs

Francesco Vinzio

Precise and sustainable agriculture (Intern)





## **JOIN US!**

### vaimee.com

"Fortuna est momentum quo occasionem convenit talentum" [Seneca, 65 d.c.]



